

Amendment to the Claims:

Before claim 1, please delete the word "Claims" and substitute the following:

"What is claimed is:"

Please cancel all of the claims of the application, namely claims 1-12, and add the following new claims 13-24:

1-12. (Canceled)

13. (New) A screw conveyor intended and formed for use in a decanter centrifuge for separation of solid particles from a fluid compound, in which such particles are suspended in a liquid having a smaller density than the particles, the decanter centrifuge comprising:

a rotor having an inlet for said compound, an outlet for separated solid particles and an outlet for liquid having been freed from solid particles, the rotor being rotatable about a rotational axis at a first velocity, and

a screw conveyor arranged in the rotor rotatable about the rotational axis at a second velocity different from the first velocity,

the screw conveyor comprising:

a central body extending along the rotational axis,

at least one conveyor thread extending along and about the central body supported by the same such that a screw shaped flow path is formed around the body,

at least one baffle which bridges said flow path between different parts of the conveyor thread to prevent free movement of liquid and solid particles along the flow path towards said outlet for solid particles, and

at least two originally separate parts, each of which comprises a portion of said conveyor thread and which are kept together axially, said baffle constituting a separate member arranged to be kept in place between said parts of the screw conveyor, when these are kept together axially, and wherein

said separate member has a portion which forms a part of the conveyor thread in an area where the conveyor thread intersects with and extends past the baffle.

14. (New) A screw conveyor according to claim 13, in which said separate member is arranged to be kept in place by said parts of the screw conveyor.

15. (New) A screw conveyor according to claim 13, wherein said parts of the screw conveyor are detachably connected to each other.
16. (New) A screw conveyor according to claim 13 wherein each of said screw conveyor parts comprises a part of the central body.
17. (New) A screw conveyor according to claim 13, wherein each of said screw conveyor parts comprises a substantially cylindrical portion having axial ribs and grooves, one of the screw conveyor parts having internal ribs and grooves and another one of the screw conveyor parts having external ribs and grooves, arranged to keep the parts of the screw conveyor drivingly coupled together.
18. (New) A screw conveyor according to claim 13, wherein the parts of the screw conveyor are arranged to be axially together by means of a member which extends axially through a part of the central body.
19. (New) A screw conveyor according to claim 13, wherein two conveyor threads extend along and about the central body and are supported by the same such that two screw shaped flow paths are formed around the body, and a baffle for each of said flow paths bridges the respective flow paths between different sections of the conveyor threads to prevent free movement of liquid and solid particles along the flow paths towards said outlet for solid particles.
20. (New) A screw conveyor according to claim 19, wherein the baffles are formed as one single member arranged to bridge said two flow paths and to be kept in place between said two parts of the screw conveyor.
21. (New) A screw conveyor according to claim 20, wherein said single member has substantially the form of an annular disc having two diametrically opposed portions, of which one portion forms a part of one of said conveyor threads and the other portion forms a part of the other one of said conveyor threads.

22. (New) A screw conveyor according to claim 21, wherein the annular disc comprises two diametrically opposed additional portions, each forming one of said two baffles, which bridge the respective two screw-shaped flow paths.

23. (New) A screw conveyor according to claim 13, wherein said at least one baffle bridges its flow path from a radial level at a first distance from the rotational axis to a radial level at a second greater distance from the rotational axis, the second greater distance being smaller than the distance between the rotational axis and the circumferential part of said conveyor thread in the area of the baffle in question.

24. (New) A screw conveyor according to claim 21, wherein said baffles bridge respective flow paths from a radial level at a first distance from the rotational axis to a radial level at a second greater distance from the rotational axis, the second greater distance being smaller than the distance between the rotational axis and the circumferential parts of said conveyor threads in the areas of the baffles.